

WHAT IS CLAIMED IS:

1. A SDH signal channel pointer analyzing apparatus comprising:

channel information detection means for
5 sequentially detecting pointer position information of channels inserted in a frame of an input SDH signal, and channel identification information for identifying the channel, as a set of channel information;

channel pointer extraction means for extracting
10 channel pointer value inserted in said input SDH signal based on the pointer position information contained in said channel information, each time the channel information is detected by said channel information detection means;

15 a reference data memory for storing channel pointer value, pointer counter data and status data representing alarm states as a set of reference data for each channel, respectively in different address area for each channel;

20 reference data readout means for reading out the reference data of the channel specified by channel identification information contained in the channel information from said reference data memory, each time the channel information is detected by said channel
25 information detection means;

pointer processing means for judging states of justification and alarm, from the channel pointer value

extracted from said channel pointer extraction means,
and reference data read out by said reference data
readout means and for generating a new reference data
based on the judgment results; and

5 reference data update means for updating the
reference data of the same channel stored in said
reference data memory by the new reference data
generated by said pointer processing means.

2. A SDH signal channel pointer analyzing
10 apparatus according to claim 1, further comprising:
a display means for displaying the results of
judgment by said pointer processing means.

3. A SDH signal channel pointer analyzing method
comprising the steps of:
15 sequentially detecting pointer position
information of channels inserted in a frame of an input
SDH signal, and channel identification information for
identifying the channel, as a set of channel
information;

20 extracting channel pointer value inserted in said
input SDH signal based on the pointer position
information contained in said channel information, each
time the channel information is detected;

25 storing channel pointer value, pointer counter
data and status data representing alarm states as a set
of reference data for each channel into a reference
data memory, respectively in different address area for

each channel;

reading out the reference data of the channel
specified by channel identification information
contained in the channel information from said
5 reference data memory, each time the channel
information is detected;

judging states of justification and alarm, from
the extracted channel pointer value, and reference data
read out from said reference data memory and,
10 generating a new reference data based on the judgment
results; and

updating the reference data of the same channel
stored in said reference data memory by the new
reference data.

15 4. A SDH signal channel pointer analyzing method
according to claim 3, further comprising the step of
displaying said judgment results.